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that in light of the claim amendments above, which clarify but do not narrow the claims, the basis for these objections have been obviated and the claims are in condition for allowance.

Claims 22, 46 and 48 were also amended to clarify, but do not narrow, the recited melting temperature range that applicants observed was not as clearly recited in the original as they could have been.

CLAIM REJECTIONS

I. Rejection of Claims 1-21 and 48-80 under 35 U.S.C. § 103(a)

In the Office Action mailed March 15, 2002, the Examiner rejected claims 1-21 and 48-80 under 35 USC § 103(a) as being obvious over **Idlas** (U.S. Patent No. 5,769,648) ("**Idlas**") in view of **Lustig et al**. (U.S. Patent No. 4,863,769) ("**Lustig**") and in further view of **Peiffer et al**. (U.S. Patent No. 6,063,482) ("**Peiffer**"). Applicant respectfully submits that the claims are patentable over these references for at least the following reasons, and requests removal of these rejections.

A. The rejection is improper because Idlas teaches away from the present invention by teaching against the use of PVDC and teaching the preferred use of random coplymers of propylene.

First, the Examiner asserts that claims 1-21 and 48-80 are unpatentable over the combination of **Idlas**, **Lustig** and **Peiffer**. Specifically, with regard to **Idlas**, the Examiner states:

Though **Idlas** teaches the use of EVOH as the gas barrier layer, it is well known in the art that EVOH, nylon and PVDC, including vinylidine chloride-vinyl chloride and vinylidene chloride-methyl acrylate copolymers, are functionally equivalent barrier materials utilized in the art wherein **Idlas** specifically teaches that known packaging films typically contain EVOH, nylon, and/or PVDC barrier layers (Col. 2, line 43-Col. 3, line 37) and hence would have been obvious to one having ordinary skill in the art at the time of the invention to utilize any of these known and conventional barrier materials based on the desired barrier and film properties for a particular end use.

(Office Action at 3.)

Applicant respectfully submits that **Idlas** does not render claims 1-21 and 48-80 unpatentable because **Idlas** teaches away from the combination of a vinylidine chloride containing gas barrier layer in the packaging films of the present invention, by suggesting that vinylidene chloride-containing polymers (hereinafter generally referred to as "PVDC") is not a desirable material for an oxygen barrier layer in the films taught by **Idlas**, and that PVDC is not readily interchangeable with the EVOH oxygen barrier films taught by **Idlas**. Thus, in the context of the films taught by **Idlas**, contrary to the Examiner's assertion, PVDC is not a functional equivalent to EVOH

It is improper to combine references where references teach away from their combination. Manual of Patent Examining Procedure § 2145 (8th ed. 2001) ("M.P.E.P.") citing, *In re Grasselli*, 713 F.2d 731, 743, 218 USPQ 769, 779 (Fed. Cir. 1983) (The claimed catalyst which contained both iron and an alkali metal was not suggested by the combination of a reference which taught the interchangeability of antimony and alkali metal with the same beneficial result, combined with a reference expressly excluding antimony from, and adding iron to, a catalyst).

Idlas teaches away from the instant invention in at least three different ways. First, Idlas teaches that because of difficulties in recycling and processing PVDC polymers, EVOH is preferably employed as an alternative to a PVDC oxygen barrier layer. Idlas at col. 3, lines 25-30 ("Also, recycling of PVDC polymers is difficult.... Attempts to remelt film containing PVDC frequently results in degradation of the PVDC component. For this reason EVOH has been employed as an alternative barrier layer.").

Second, **Idlas** teaches that "[t]he invention in *all* its embodiments comprises... an EVOH gas barrier layer." (col. 7, lines 25-30-emphasis added). None of the examples of the invention in **Idlas** use PVDC as a barrier layer.

Third, **Idlas** teaches the preferred use of random copolymers of propylene, with a melting temperature preferably more than 129° C. (col. 10, lines 32-33). These are not metallocene catalyzed propylene copolymers as used in the present invention. While **Idlas** claims the use of a metallocene catalyzed C_3 - C_2 copolymer (claim 9), the specification

expressly teaches that random copolymers, and not metallocene catalyzed copolymers, are preferred materials, thus leading one of ordinary skill away from selecting metallocene catalyzed copolymers for combinations with other materials.

Accordingly, one of ordinary skill in the art following **Idlas** would not be taught to select a film combination that included both a PVDC barrier layer and a metallocene catalyzed propylene copolymer layer. Rather, one of ordinary skill in the art would be proceeding contrary to the preferred teachings of **Idlas** in coming to the present invention. As discussed below, the teachings of **Lustig** do not provide any motivation to overcome the preferred teachings of **Idlas** away from the present invention.

B. The rejection is improper because Idlas teaches at least five layers, whereas Claims 48-80 "consist essentially of" the recited three layers.

Moreover with regard to Claims 48-80, the claims are directed to film that "consists essentially of" the recited layers. Only three layers are recited, the third being optional. A core barrier layer is absent from the recited layers. **Idlas** states that "the inventive article is preferably a heat shrinkable multilayer film which must have at least five layers. These five essential layers are . . ." (col. 8, lines 1-5). These essential layers of **Idlas** include an EVOH core barrier layer. **Idlas** provides no motivation to eliminate this "essential" core layer. The other references, **Lustig** and **Peiffer** also provide no such motivation. Therefore, claims 48-80 are patentable over the combination of cited references for at least this additional reason.

C. The rejection is improper because there is no suggestion or motivation to combine the stated references to substitute only PVDC from Lustig for EVOH in Idlas.

Second, the Examiner asserts that with regard to Lustig:

Lustig et al teach a biaxially oriented, heat shrinkable film properties for a particular end use...it would have been obvious to one having ordinary skill in the art at the time of the invention to substitute polyvinylidene chloride having a vinylidene chloride content of 70-95wt% as taught by Lustig et al for EVOH layer in the invention taught by Idlas.

(Office Action at 3-4.)

Applicant respectfully submits that the combination of **Idlas**, **Lustig** and **Peiffer** does not render claims 1-21 and 48-80 unpatentable, because in **Lustig** there is no teaching, suggestion or motivation overcoming **Idlas**' express teachings against substituting the PVDC oxygen barrier layer for the EVOH core (oxygen barrier) layer of **Idlas**. Obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion or motivation to do so. M.P.E.P. § 2143.01. A prior art reference must be considered in its entirety, including disclosures that teach away from claims. M.P.E.P. § 2141.02, at 2100-120.

First, **Lustig** does not teach that a PVDC oxygen barrier layer can be substituted for an EVOH oxygen barrier layer in a multilayer film. **Lustig** teaches advantageously high shrinkage values at elevated temperatures of very low density polyethylene (VLDPE). See, e.g., **Lustig** at col. 10, lines 11-17. **Lustig** presents Example II showing that VLDPE monolayer films have "highly desirable" high shrinkage values and Example III showing foodstuff bags made from monolayer VLDPE have "substantially improved shrinkage properties." However, **Lustig** does not disclose the combination of VLDPE layers with an oxygen barrier layers other than PVDC. Therefore, **Lustig** provides no demonstrations and no express teaching to substitute PVDC for EVOH.

Second, **Lustig** teaches that a PVDC copolymer oxygen barrier layer can be included in a multilayer film structure that includes an EVA inner layer. Specifically, in Example IV, **Lustig** teaches multilayer films comprising a PVDC core layer with outer layers of either EVA or EVA-VLDPE blends, and inner layers of only EVA. (col. 13, line 60 – col. 14, line 8). By teaching the desirable shrinkage properties of VLDPE films on the one hand, but conspicuously omitting any example or teaching of multilayer films comprising PVDC oxygen barrier layers in combination with a film structure absent an EVA layer, the teachings of **Lustig** suggest to one of ordinary skill in the art that the PVDC oxygen barrier layer is compatible with multilayer structures juxtaposed to an EVA layer. Accordingly, **Lustig** teaches away from any motivation to combine the PVDC oxygen barrier layers with film structures in **Idlas** that do not include EVA layers.

Third, to the extent that the references include a suggestion to substitute PVDC with EVOH that overcome Idlas' express teachings to the contrary, Applicants submit that one of ordinary skill in the art following Lustig's teachings would substitute an inner layer of EVA next to a core layer of PVDC for the EVOH core layer in the films of Idlas. However, Applicant asserts that there is no such teaching in Lustig sufficient to overcome Idlas' express teachings to the contrary. The Examiner must consider the degree to which one reference might accurately discredit another. MPEP §2143.01 at 2100-124. Since the multilayer film taught by Lustig (EVA/PVDC/EVA:PE) is disclosed in the background section of Idlas (col. 2, line 46), Applicant submits that Idlas accurately discredits any suggestive power that Lustig may hold to substitute PVDC for EVOH in Idlas.

Fourth, **Lustig** provides no specific motivation to further modify **Idlas** by eliminating the "at least 10 wt. % of an anhydride-modified third copolymer of ethylene" in the second and fourth layers required by **Idlas** on either side of the EVOH layer. The anhydride-modified poly ethylene is not required in the second and fourth layers by the present claims, and further distinguishes the claimed invention from the cited references.

D. The rejection is improper because hindsight reasoning is required to optimize the polymerization conditions of **Idlas** in light of **Peiffer** to arrive at the instant invention.

Third, with regard to the teachings of Peiffer, the Examiner asserts that:

Though Idlas teaches that the packaging film has low extractable levels and contains a first layer preferably comprising a propylene-ethylene copolymer formed in the presence of metallocene catalysts, wherein it is well known in the art that metallocene catalysts have narrow molecular weight distribution Mw/Mn, Idlas does not teach the n-hexane extractable content and the Mw/Mn and n-hexane extractable content are the results of the polymerization process and are result-effective variables affecting the properties of the copolymers formed, particularly the melt processability and heat seal properties of the polymer as evidenced by Peiffer et al. Peiffer et al specifically teach a packaging film comprising a propylene polymer containing at least 90%wt propylene units and not more than 10wt% ethylene units wherein the propylene polymer is polymerized in the presence of metallocene catalysts producing a polymer structure having an n-heptane extractable content of less than 1.0wt% and a low molecular weight

distribution of less than 4, particularly 1.5 to 2.7, wherein the structure of the propylene polymer provides a packaging film having improved film properties including elasticity and high gloss (Col. 3, line 38 – Col. 4, lines 67 [sic.]). Hence, it would have been obvious to one having ordinary skill in the art at the time of the invention to utilize routine experimentation to determine the optimum polymerization conditions to produce the metallocene-catalyzed propene copolymer taught by **Idlas** having the desired Mw/Mn and n-hexane extractable content for a particular end use, wherein **Peiffer et** [sic.] the production of metallocene-catalyzed propylene copolymers having n-hexane extractable content and Mw/Mn values as instantly claimed. (Office Action at 4-5).

Applicant respectfully submits that the asserted combination of **Peiffer** and **Idlas** with **Lustig** does not render claims 1-21 and 48-80 unpatentable because improper hindsight reasoning is required to optimize the polymerization conditions of **Idlas** in light of **Peiffer** to arrive at the instant invention. See M.P.E.P. § 2145, at 2100-152. In considering prior art under 35 U.S.C. § 103, "a prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention." M.P.E.P. § 2141.02.

Without the knowledge disclosed in the present application, Applicant respectfully submits that one skilled in the art would not "optimize" the synthesis of the propene copolymer first layer of **Idlas** according to the *complete* teachings of **Peiffer** to obtain the metallocene-catalyzed propylene copolymers having the melting temperature range and other physical properties as instantly claimed. First, the first layer of **Idlas** is described as being preferably not a metallocene catalyzed resin, contrary to the Examiner's assertion, but rather preferably a random copolymer resin as formed by Ziegler-Natta catalyst processes. (See **Idlas**, col. 10, lns. 32-40). Therefore, one of ordinary skill in the art would have to go against **Idlas**' preferred teachings to seek out **Peiffer**. Second, **Peiffer** teaches a melting point range limitation regarding the metallocene-catalyzed polypropylene of its "base ply" layer that suggests that the metallocene based polymer synthesis methods disclosed in **Peiffer** are not directly or universally applicable to the propene copolymers in the first layer of **Idlas**.

Moreover, contrary to the Examiner's assertion, Applicant submits that one of ordinary skill in the art would not read Peiffer as teaching the "optimization" of the metallocene-catalyzed synthesis of the propene copolymer first layer of Idlas for several reasons. First, Idlas and Peiffer teach propene copolymers with different melting point ranges. Second, Idlas teaches that the melting point of copolymers within the multilayer films of the invention is a primary parameter used to (i) select processing conditions for the manufacture of the multilayer film by extrusion (col. 14, lines 40-49), (ii) achieve desired heat shrinking properties of the multilayer film (col. 14, line 67 – col. 15, line 5), (iii) select a draw point and orientation temperature for orienting of films (col. 19, lines 63-64), and (iv) evaluate the ease of film recycling (col. 3, lines 25-27). Accordingly, one of ordinary skill in the art could not apply the teaching of Peiffer to "optimize" the synthesis of the propene copolymer portion of a multilayer film of Idlas with any assurance that the resulting polymer would retain the desirable physical properties of heat shrinkage, low molecular weight distribution and low n-hexane extractables if it was reformulated to be capable of being extruded and oriented at the different temperatures taught in Idlas. Instead, the desired physical properties, given the manufacturing conditions taught in the specification or known in the art, is provided by the instant application and not by Peiffer, Idlas or the level of ordinary skill in the art.

Applicant's position is supported by a direct comparison of **Peiffer** and **Idlas**. This comparison highlights that **Peiffer** teaches a copolymer that one of ordinary skill would recognize may *not* work with the film of **Idlas** based at least on the different melting temperature ranges. **Peiffer** teaches a metallocene-catalyzed "base ply" polymerized in the presence of metallocene catalysts producing a polymer structure with a melting point between 140°C-175°C, preferably from 150°C – 165°C, and most preferably between 155°C - 162°C (col. 3, lines 48-57). Indeed, **Peiffer** shows examples of only propene homopolymers that have melting temperatures of between 147°C and 161°C. Moreover, **Peiffer** notes that the film according to the invention is "distinguished by improved tear propagation resistances in the longitudinal and transverse directions of the film, the other properties of the

film, in particular the mechanical properties and *the shrink resistance*, not being disadvantageously impaired." (col. 8, lines 8-12).

In contrast to **Peiffer**, **Idlas** teaches preferred propene copolymers of propene and certain α-olefins, wherein copolymers have a melting point of less than 140°C or between about 126°C - 145°C, preferably between about 129°C - 136°C. (Abstract; col. 10, lines 30-33). Also, **Idlas** teaches that an object of the invention is to make a film having high heat shrinkage properties. (col. 5, lines 23-25).

The temperature range of the propene copolymer is integral to teachings of **Idlas**. **Idlas** teaches that the melting point of the propene copolymer is a critical parameter in: (1) the manufacturing of the multilayer film by extrusion (col. 14, lines 40-49, teaching orientation at "temperatures below the melting points for the predominant resin comprising each layer..."), (2) heat shrinking temperatures (col. 14, line 67 – col. 15, line 5, teaching heat shrinking of multilayer films below the melting temperature of major components of the films), (3) selecting a draw point or orientation temperature for biaxially stretching and orienting the multilayer film (col. 19, lines 63-64, teaching "The draw point or orientation temperature was below the predominant melting point for each layer...") and (4) the recycling of polymers comprising PVDC comprising other polymers with different melting points (col. 3, lines 25-27, teaching "....recycling of PVDC polymers is difficult, particularly where the waste polymer is mixed with other polymers having different melting points.").

The present application teaches, *inter alia*, a first layer of a multilayer film comprising a propene copolymer with certain a-olefins with a melting temperature of between about 100°C and 145°C (as recited in independent claims 1 and 48), and preferably between 110°C and 130°C (as recited in dependent claims 7, 16, 17, 18, 51, 60-62, 66, and 75-77), and more preferably between 120°C and 130°C (as recited in dependent claims 8, 52, and 67). Clearly, the propene polymers shown by example in **Peiffer** have a melting point temperature range higher than the polymers in **Idlas**, which are indicative of a different structure with greater heat shrink resistance. Therefore, the propene copolymers of **Peiffer** are not simply a drop-in for the propene copolymer of **Idlas** in heat shrinkable films to obtain the film as presently claimed in claims 1 and 48.

Absent the teachings of the present application, one of ordinary skill in the art seeking to synthesize a first layer of a multilayer film comprising a propene copolymer with a melting temperature of between about 100°C and 145°C, and more specifically between 110°C and 130°C or between 120°C and 130°C, in accordance with the instant application, could not reasonably be sure that the teachings of **Peiffer**, directed to a polymer having a higher melting point range of between 140°C-175°C (most preferably between 155°C - 162°C), could be applied to effectively optimize the **Idlas** propene copolymer, which has a melting point of between 126°C - 145°C, without disrupting the effectiveness of the manufacturing conditions and resulting film properties recited for the **Idlas** films.

One such property for the film expressly recited by at least some of the present claims, is that the film be heat shrinkable. The films taught by **Peiffer** are not heat shrinkable, as evidence by the data in the Table at columns 15 and 16, wherein the films of Ex. 5 and 6 have shrinkage of 3.0% or less in both directions. In contrast, the present application, at page 11, lines 25-28, teaches that the film has a shrinkage of 20% or higher at 90°C, and at page 36, lines 18-26, teaches that the shrinkage may be more than the comparative example films A-E. **Peiffer** provides no teachings how to modify its propylene copolymers to obtain high shrinkage, low melting point temperature and retain the low extractables required by the present claims.

Moreover, **Peiffer** teaches using the metallocene catalyzed propene copolymer in the base ply of a film, preferably with top plies on either side of the base ply. The present claims require the propene copolymer to be at least in the first layer, which is the heat sealing layer. As taught by the present application, a low melting temperature is important for this first layer to improve the sealing abilities of the film across a broader temperature range. Therefore, one of ordinary skill in the art would not be motivated to consider **Peiffer**, because it teaches propene copolymers with a higher melting temperature in a base ply, that likely may not be as suitable for a sealing layer. Indeed, one of ordinary skill in the art would merely substitute the polymer of **Peiffer** into the film of **Idlas** and likely obtain a film without the claimed physical properties.

Accordingly, Applicant requests removal of this rejection because the Examiner employs improper hindsight reasoning in this rejection by combining knowledge gleaned only from the applicant's disclosure, e.g., that polypropylene copolymers with lower melting points and comprising co-monomers of certain α-olefins *and* having desirably low n-hexane extractable content and Mw/Mn values can be synthesized and made into heat shrinkable films. Clearly, there is no teaching based on **Peiffer** to synthesize such a propylene copolymer with all the properties required by **Idlas**. M.P.E.P. § 2145 (citing *In re McLaughlin*, 443 F.2d 1392, 1395, 170 U.S.P.Q. 209, 212 (CCPA 1971)).

For any one of the reasons explained above, the Applicant asserts that claims 1 and 48, as well as the dependent claims dependent therefrom, are patentable over the cited references.

II. Rejection of 22-47 under 35 U.S.C. § 103(a)

In the Office Action mailed March 15, 2002, the Examiner rejected claims 22-47 under 35 USC § 103(a) as being obvious over **Idlas** in view of **Lustig** and **Peiffer**. Specifically, the Office Action states:

Though Idlas teaches the packaging films may further comprise additional intermediate layers, Idlas does not specifically teach the incorporation of an intermediate or transition layer between the first propene copolymer layer and the second ethylene blend layer, however, it is well known in the art that tie or intermediate layers can be provided between two adjacent layers wherein the tie or transition layer is a blend of the polymer materials utilized in the two adjacent layers thereby providing improved adhesion between the two layers. Hence, it would have been obvious to one having ordinary skill in the art at the time of the invention to provide an intermediate layer as taught by Idlas between the first propene layer and the second ethylene blend layer wherein it would have been obvious to one having ordinary skill in the art at the time of the invention to utilize routine experimentation to determine the optimum blend composition and thickness of the intermediate layer based on the composition of the first and second layers of the film taught by Idlas to provide the desired adhesion between the two layers. (Office Action at pp. 5-6).

A. The rejection should be withdrawn because the prior art does not teach or suggest the claimed composition of the transition layer of the present invention.

Applicant respectfully submits that **Idlas** in view of **Lustig** and **Peiffer** do not render claims 21-47 unpatentable, because **Idlas** gives no indication of which parameters are critical among the many possible combinations for the transition layer compositions of the instant invention. An obviousness rejection under 35 U.S.C. § 103 is improper when "what would have been 'obvious to try' would have been to vary all parameters or try each of numerous possible choices until one possibly arrived at a successful result, where the prior art gave either no indication of which parameters were critical or no indication as to which of many possible choices is likely to be successful... or where the prior art gave only general guidance as to the particular form of the claimed invention or how to achieve it." M.P.E.P. § 2145 (quoting *In re O'Farrell*, 853 F.2d 894, 903, 7 USPQ2d 1673, 1681 (Fed. Cir. 1988)).

Idlas discloses a multilayer film with at least five layers, but allows for: (1) "additional" or "intermediate" layers disposed between the core layer and the first and fifth layers, or as an outside surface layer (col. 8, lines 15-25), (2) addition of "various resins... as additional layers" (col. 16, lines 11-13), and (3) "additional layers or polymers to add or modify various properties of the desired film..." (col. 19, lines 17-21). Even if these recitations could be construed as teaching or suggesting a transition layer, there is no teaching or suggestion in Idlas itself, or implied by Idlas, as to what elements of the various layers disclosed could be combined to create an effective transition layer.

Applicant can find no teaching or suggestion in **Idlas** of the specific combination and proportions of propene:α-olefin copolymer and ethylene:α-olefin copolymers as recited in claim 22. One of ordinary skill in the art would be left without any direction to pick and choose amongst a myriad of choices to arrive by sheer happenstance at the specific elements and proportions in the transition layer claimed. Accordingly, in the absence of any guidance or implication of the transition layers of the present application, Applicant respectfully submits that the **Idlas** reference as read by one of skill in the art does not teach or suggest the transition layers as specifically claimed.

B. The rejection is improper because hindsight reasoning is required to optimize the polymerization conditions of Idlas in light of Peiffer to arrive at the instant invention.

Morever, the comments of **Idlas**, **Lustig** and **Peiffer** made above with regard to claims 1-21 and 48-80 apply to claims 22-47. In particular, applicant points out that Claim 22 recites in the preamble a heat shrinkable packaging film. **Peiffer** is specifically directed to a film having shrink resistance. (col. 8, lines 8-12). That shrink resistance plus the higher melting point temperatures of the propene polymers disclosed by **Peiffer**, would lead one of ordinary skill in the art away from the teachings of **Peiffer** based on the specific properties of the metallocene-catalyzed polymer disclosed. Accordingly, Applicants assert that claims 22-47 are patentable over the cited references. In addition, present claims 30, 31, 39-41 are directed to the preferred lower melting point temperature ranges outside the broad ranges disclosed in **Peiffer**.

III. New Claims 81-93

Applicant also points to the newly added claims 81-99, which further elaborate the distinguishing features of the invention from the cited references. For example, claims 81-85, 88-92 and 95-97 are directed to specific heat shrink values of the film. As discussed above, the claimed shrinkage quantifies the difference between the relatively non-shrinkable film of **Peiffer** and the claimed invention. Claims 86-87 and 93-94 are directed to specific arrangements of film layers. As discussed above, the specific arrangement of film layers further distinguishes the claims from **Idlas**, which discloses five essential layers one of which is a core barrier layer.

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IV. Conclusion

Applicant respectfully asserts that the claimed invention is not obvious over the cited references. Accordingly, the rejection should be withdrawn and the pending claims are found allowable. Should the Examiner feel that an Interview may expedite the resolution of these matters or other formalities, he is kindly requested to contact the undersigned attorney.

Respectfully submitted,

By:

Marc V. Richards Reg. No. 37,921

Attorney for Applicants

BRINKS HOFER GILSON & LIONE P. O. Box 10395 Chicago, Illinois 60610 (312) 321-4200

Appendix A:

Claims showing amendments: deletions bracketed; additions underlined

- 1. (Amended) A multilayer packaging film having at least four layers arranged in sequence comprising:
- (1) a first layer comprising at least 50% by weight of a copolymer of propene, and at least one α-olefin selected from the group consisting of ethylene, butene-1, methylpentene-1, hexene-1, octene-1, decene-1 and mixtures thereof, said copolymer having a propene content of at least 60 wt. %, a Tm between about 100°C and about 145°C, a Mw/Mn of between 1 and 5, and n-hexane extractables of less than 5 wt. %;
 - (2) second and fourth layers each comprising:
- (a) at least 10 wt. % of a first copolymer of ethylene and at least one C[4]₄ C[8]₈ α -olefin, said copolymer having a density of from 0.900 to 0.915 g/cm[3]³ and a melt index of less than 2 dg/min.,
- (b) at least 10 wt. % of a second copolymer of ethylene with from 4 to 18 wt. % of a vinyl ester, alkyl acrylate, acrylic or methacrylic acid, and
- (c) from 0 to 60 wt. % of a third copolymer of ethylene and at least one $C[3]_3 C[8]_8$ α -olefin having a density less than 0.900 cm[3]³ and a melting point [less] of between 65-98°C[.]; and
- (3) a third layer comprising at least 80% by weight of at least one copolymer of vinylidene chloride with from 2-20 wt. %, [(]based on said copolymer, [)]of vinyl chloride or methyl acrylate.

- 22. (Amended) A multilayer biaxially oriented heat-shrinkable packaging film comprising:
- (1) a first layer comprising at least 50% by weight of a copolymer of propene, and at least one α-olefin selected from the group consisting of ethylene, butene-1, methylpentene-1, hexene-1, octene-1, decene-1 and mixtures thereof, said copolymer having a propene content of at least 60 wt. %, a Tm between about 100°C and about 145°C, a Mw/Mn of between 1 and 5, and n-hexane extractables of less than 4 wt. %;
 - (2) a second layer comprising:
- (a) at least 10 wt. % of a first copolymer of ethylene and at least one C_4 C_8 α -olefin, said copolymer having a density of from 0.900 to 0.915 g/cm³ and a melt index of less than 2 dg/min.,
- (b) at least 10 wt. % of a second copolymer of ethylene with from 4 to 18 wt. % of a vinyl ester, alkyl acrylate, acrylic or methacrylic acid, and
- (c) from 0 to 60 wt. % of a third copolymer of ethylene and at least one C_3 C_8 α -olefin having a density less than 0.900 g/cm³ and a melting point [less] of between 85-98°C.; and
- (3) a transition layer between and in contact with said first layer and said second layer, the transition layer comprising:
- (a) at least 20% by weight of a fourth copolymer of propene, and at least one α-olefin selected from the group consisting of ethylene, butene-1, methylpentene-1, hexene-1, octene-1, decene-1 and mixtures thereof, said copolymer having a propene content of at least 60 wt. %, a Tm between 100°C and 145°C, a Mw/Mn of between 1 and 5, and n-hexane extractables of less than 4 wt. %;
- (b) at least 20% by weight of a fifth copolymer of ethylene and at least one C_4 C_8 α -olefin, said copolymer having a density of from 0.900 to 0.915 g/cm³ and a melt index of less than 2 dg/min., and
- (c) from 0 to 60 wt. % of a sixth copolymer of ethylene and at least one C_3 C_8 α -olefin having a density less than 0.900 g/cm³ and a melting point [less] of between 65-98°C.

45. (Amended) The film of claim 22 further comprising:

a third layer comprising:

at least 80% by weight of at least one copolymer of vinylidene chloride with from 2-20 wt. %, [(]based on said copolymer,[)] of vinyl chloride or methyl acrylate.

- 46. (Amended) The film of claim 45 further comprising:
 - a fourth layer comprising:
- (a) at least 10 wt. % of a seventh copolymer of ethylene and at least one C_4 C_8 α -olefin, said copolymer having a density of from 0.900 to 0.915 g/cm³ and a melt index of less than 2 dg/min.,
- (b) at least 10 wt. % of a eighth copolymer of ethylene with from 4 to 18 wt. % of a vinyl ester, alkyl acrylate, acrylic or methacrylic acid, and
- (c) from 0 to 60 wt. % of a ninth copolymer of ethylene and at least one C_3 C_8 α -olefin having a density less than 0.900 g/cm³ and a melting point [less] of between 65-98°C.

- 48. (Amended) A multilayer packaging film formable into a pouch by heat sealing for use in food preparation consisting essentially of:
- (1) an inner sealing layer comprising at least 50% by weight of a copolymer of propene, and at least one α-olefin selected from the group consisting of ethylene, butene-1, methylpentene-1, hexene-1, octene-1, decene-1 and mixtures thereof, said copolymer having a propene content of at least 60 wt. %, a Tm between about 100°C and about 145°C, a Mw/Mn of between 1 and 5, and n-hexane extractables of less than 5 wt. %;
 - (2) a second layer in contact with the inner sealing layer comprising:
- (a) at least 10 wt. % of a first copolymer of ethylene and at least one C_4 C_8 α -olefin, said copolymer having a density of from 0.900 to 0.915 g/cm³ and a melt index of less than 2 dg/min.,
- (b) at least 10 wt. % of a second copolymer of ethylene with from 4 to 18 wt. % of a vinyl ester, alkyl acrylate, acrylic or methacrylic acid, and
- (c) from 0 to 60 wt. % of a [fourth]third copolymer of ethylene and at least one C_3 C_8 α -olefin having a density less than 0.900 g/cm³ and a melting point [less] of between 65-98°C.; and
 - (3) an optional third layer comprising a protective outer layer.

NEW CLAIMS

- 81. (New) The film of claim 1, wherein the film has a shrinkage of more than 20% at 90°C in at least one direction.
- 82. (New) The film of claim 1, wherein the film has a shrinkage of more than 30% at 90°C in at least one direction.
- 83. (New) The film of claim 1, wherein the film has a shrinkage of more than 25% at 90°C in both directions.
- 84. (New) The film of claim 1, wherein the film has a shrinkage of more than 30% at 90°C in a first direction and a shrinkage of more than 44% at 90°C in a second direction.

- 85. (New) The film of claim 1, wherein the film has a shrinkage of more than 32% at 90°C in a first direction and a shrinkage of more than 48% at 90°C in a second direction.
 - 86. (New) The film of claim 1, wherein the film consists essentially of four layers.
- 87. (New) The film of claim 1, wherein the four layers are in said sequence and in contact.
- 88. (New) The film of claim 22, wherein the film has a shrinkage of more than 20% at 90°C in at least one direction.
- 89. (New) The film of claim 22, wherein the film has a shrinkage of more than 30% at 90°C in at least one direction.
- 90. (New) The film of claim 22, wherein the film has a shrinkage of more than 25% at 90°C in both directions.
- 91. (New) The film of claim 22, wherein the film has a shrinkage of more than 30% at 90°C in a first direction and a shrinkage of more than 44% at 90°C in a second direction.
- 92. (New) The film of claim 22, wherein the film has a shrinkage of more than 32% at 90°C in a first direction and a shrinkage of more than 48% at 90°C in a second direction.
 - 93. (New) The film of claim 22, wherein the film excludes a core barrier layer.
 - 94. (New) The film of claim 47, wherein the film consists essentially of said layers.
- 95. (New) The film of claim 48, wherein the film has a shrinkage of more than 20% at 90°C in at least one direction.
- 96. (New) The film of claim 48, wherein the film has a shrinkage of more than 30% at 90°C in at least one direction.

Appln. No. 09/652,591 Amendment and Remarks

- 97. (New) The film of claim 48, wherein the film has a shrinkage of more than 25% at 90°C in both directions.
- 98. (New) The film of claim 48, wherein the film has a shrinkage of more than 30% at 90°C in a first direction and a shrinkage of more than 44% at 90°C in a second direction.
- 99. (New) The film of claim 48, wherein the film has a shrinkage of more than 32% at 90°C in a first direction and a shrinkage of more than 48% at 90°C in a second direction.